

# Water Resources Sub-Element

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## Goals, Policies and Action Statements

Goal 3.1A        Manage future demands to ensure that existing and realistically certain future water supplies will be adequate.

Policy 3.1A.1    Contract for water supplies based on projected reasonable demands.

### Action Statements

3.1A.1a    Negotiate for long-term supply commitments, using future demands as forecasted by the latest hydraulic network analysis and/or staff estimates.

3.1A.1b    Support reasonable, cost-effective, and environmentally sound water supply enhancement projects of San Francisco Water Department/Hetch-Hetchy and Santa Clara Valley Water District.

Policy 3.1A.2    Purchase potable water utilizing the most cost-effective source(s), subject to contractual requirements with our suppliers.

### Action Statements

3.1A.2a    Provide system controls that can respond to demand while also optimizing the mix of all sources in a cost-effective manner.

3.1A.2b    Establish operating budgets that maximize water units in areas where costs are the least.

Policy 3.1A.3    Maintain a cost-effective preventative maintenance program that provides for sufficient reliability of all potable and reclaimed water system facilities.

### Action Statements

3.1A.3a    Perform preventative maintenance on all system facilities in order to eliminate the need for major unscheduled repairs or replacements.

3.1A.3b    Provide for periodic inspection and assessment of system facilities.

3.1A.3c    Maintain accurate and up-to-date records and maps.

3.1A.3d    Provide for coordination with other utilities as required.

3.1A.3e Test, repair and replace water meters pursuant to established standard frequencies.

3.1A.3f Respond to all customer concerns and inquiries.

3.1A.3g Assure all facilities are properly screened, landscaped and maintained so as not to detract from neighboring developments.

3.1A.3h Provide appropriate security and protection of water facilities.

3.1A.3i Test and repair hydrants pursuant to established standard frequencies.

Goal 3.1B Ensure that potable and reclaimed water meet all quality and health standards.

Policy 3.1B.1 Ensure that backflow from potentially contaminated water services is prevented through an aggressive inspection and maintenance program.

Action Statements

3.1B.1a Ensure that adequate backflow prevention devices are installed as required.

3.1B.1b Monitor annual backflow devices testing program.

3.1B.1c Perform backflow investigations and inspections as required.

3.1B.1d Investigate the potential for the City owning all backflow devices, thereby ensuring proper function and maintenance.

Policy 3.1B.2 Develop a comprehensive water quality monitoring program that meets or exceeds all state and federal requirements, while also meeting specific needs of the City and our citizens.

Action Statements

3.1B.2a Establish parameters to be tested for, together with specific testing frequencies and scheduling.

3.1B.2b Provide adequate laboratory testing facilities.

3.1B.2c Provide adequate training for quality sampling and testing.

3.1B.2d Provide the public with information relative to City's water quality program, bottled water, home water filtering devices, private wells, etc.

3.1B.2e Respond to customer concerns and inquiries.

3.1B.2f Monitor state and federal legislation to ensure City's sampling and testing procedures meet all requirements.

Policy 3.1B.3 Develop an action plan to respond to and protect from contamination of water supplies.

Action Statements

3.1B.3a Monitor all known underground contaminations.

3.1B.3b Ensure responsible parties are taking all reasonable steps to clean up known underground contaminations.

3.1B.3c Ensure responsible enforcement agencies are taking all reasonable steps to have responsible parties clean up known underground contaminations.

3.1B.3d Ensure all business and industry are complying with the City's hazardous materials storage ordinance.

3.1B.3e Maintain an emergency action plan to isolate and prohibit the delivery of known or suspected contaminated water to customers.

3.1B.3f Maintain a program to notify customers of known or suspected contaminated water and of the City's action plan.

3.1B.3g Work with the Santa Clara Valley Water District to identify all private wells in the City.

3.1B.3h Advise owners of private wells of health risks, adequate quality testing, etc., and encourage proper abandonment of the wells where appropriate.

3.1B.3i Encourage owners of private wells that do not have City water service to properly abandon their wells and hook up to the City's water system.

Goal 3.1C Ensure that the water distribution system can meet minimum fire and quality standards during emergency conditions.

Policy 3.1C.1 Maintain an emergency water operations plan.

Action Statements

3.1C.1a Maintain sufficient emergency interties with other water utilities.

3.1C.1b Develop and maintain standard operating procedures for responding to losses of supply or water contamination events.

3.1C.1c Develop and maintain standard operating procedures for notifying the public during losses of supply or water contamination events.

Policy 3.1C.2 Provide sufficient storage and backup power to meet minimum requirements for water during emergencies.

Action Statements

3.1C.2a Check periodically the adequacy of storage facilities and distribution system through a computer modeling program (hydraulic network analysis).

3.1C.2b Study need for additional backup power at key water facilities.

Goal 3.1D Manage potable water demand through the effective use of water rates, conservation programs and reclaimed water.

Policy 3.1D.1 Provide for an on-going potable water conservation program.

Action Statements

3.1D.1a Monitor unaccounted-for water and notify Finance when percentages exceed norms.

3.1D.1b Support demand management programs identified as "Best Management Practices " in our Memorandum of Understanding with the State Department of Water Resources.

3.1D.1c Update our City's Urban Water Management Plan as required by the State.

3.1D.1d Inform the community periodically on the status of water supply and the need to conserve.

3.1D.1e Maintain current inverted rate structure policy.

Policy 3.1D.2 Provide for potable water conservation programs that will effectively respond to periods of water shortages/droughts.

Action Statements

3.1D.2a Implement staged water conservation plans similar to those implemented during the 1987-1992 drought, depending on the severity of future water shortages.

3.1D.2b Implement water usage restrictions tailored to the level of conservation required.

3.1D.2c Keep the community regularly advised as to the status of the water shortage emergency, how they can achieve conservation goals, and the community's progress toward those goals.

3.1D.2d Coordinate drought planning with other involved agencies.

Policy 3.1D.3 Expand opportunities for reclaimed water use consistent with ecology needs of the Bay and/or diminished potable water supplies.

Action Statements

3.1D.3a Complete Phases I and II of the existing Reclaimed Water Project.

3.1D.3b Consider expanding this project into Phase III and beyond.

3.1D.3c Pursue funding for existing and future projects.

3.1D.3d Provide information and assistance to potential reclaimed water customers.

3.1D.3e Monitor use and effectiveness of reclaimed water on turf and landscaping.

Goal 3.1E Maintain a financially stable Water Fund through a user based fee system that funds operation, capital improvements, infrastructure replacement and public education programs.

Policy 3.1E.1 Establish potable and reclaimed water rate structures that will ensure funding of capital improvements, operational and maintenance needs and the development of an adequate reserve.

Action Statements

3.1E.1a Review rate structures annually.

3.1E.1b Establish appropriate reserves to ensure stable rates and provide for capital improvement and replacement needs.

3.1E.1c Review Ten-Year Plan annually for capital improvement and replacement needs.

3.1E.1d Ensure that the City receives 100% of utility entitlement by preparing utility bills accurately, by providing on-going monitoring for the completeness and accuracy of and collection of utility billings.

3.1E.1e Provide timely initiation, discontinuance and changes in water services.

Policy 3.1E.2 Establish rate structures that encourage on-going potable water conservation and that can be modified to achieve even greater levels of water conservation

during period of water shortages/droughts.

Action Statements

3.1E.2a Establish reclaimed water rates in such a way as to attract customers.

3.1E.2b Utilize inverted rate scenarios to achieve both on-going and severe water conservation goals.

Policy 3.1E.3 Establish and maintain adequate reserve levels to replace or renovate Water Fund infrastructure components in order to maximize asset life and meet future community needs.

Action Statements

3.1E.3a Maintain and periodically update an inventory of Water Fund infrastructure components.

3.1E.3b Establish, maintain and review infrastructure renovation and replacement fund schedules for the water distribution system.

Goal 3.1F Provide a customer service program that emphasizes customer satisfaction and confidence.

Policy 3.1F.1 Maintain the provision of a high-quality, dependable source of both potable and reclaimed water at a reasonable and competitive cost to the consumer.

Action Statements

3.1F.1a Expand opportunities for cost savings in operations and maintenance.

3.1F.1b Oppose unreasonable rate increases from our suppliers.

3.1F.1c Notify the community regarding Sunnyvale's water rates, how they were developed, and how they compare with neighboring utilities.

Policy 3.1F.2 Inform customers on issues relating to water supply, quality, rates, conservation, and other matters.

Action Statements

3.1F.2a Utilize bill stuffers, cable TV, direct mailers, civic events, and other media to inform customers on water resource issues.

3.1F.2b Conduct public/neighborhood meetings when and where appropriate.

3.1F.2c Continue to produce and distribute the annual water quality report.

Policy 3.1F.3 Solicit customer input through consumer surveys, City-wide events, and other forums.

Action Statements

3.1F.3a Insert customer input surveys into selected quarterly reports, bill stuffers, door knob hangers, etc.

3.1F.3b Hand out survey forms at selected City-wide events, at neighborhood meetings, schools, and other forums.

Policy 3.1F.4 Monitor customer satisfaction through periodic surveys and responses to citizen inquiries.

Action Statements

3.1F.4a Track customer compliments and complaints from phone calls, letters, etc.

3.1F.4b Distribute customer satisfaction surveys during work activities, by mail, or other delivery systems.

3.1F.4c Incorporate results of 3.1F.4a & b into measurement of desired service levels and/or outcomes measures.

Policy 3.1F.5 Train and encourage employees to develop a customer service work ethic.

Action Statements

3.1F.5a Provide on-going customer service training to employees.

3.1F.5b Incorporate customer service performance into all employee audit processes.

3.1F.5c Develop means to reward outstanding customer service by employees.

Goal 3.1G Support legislation and other efforts that promote the accomplishment of the City's water resources sub-element goals and policies.

Policy 3.1G.1 Support efforts by both the federal and state governments to work cooperatively with municipal governments to ensure safe drinking water.

Action Statements

3.1G.1a Work through the various water utility professional organizations (AWWA, CMUA, BAWUA, etc.) to promote collaborative working relationships with state

and federal drinking water authorities (EPA, DOHS, etc.).

3.1G.1b Work through lobbying organizations (LCC, CMUA, SCVWD, SFWD, etc.) to develop networks with state and federal agencies.

3.1G.1c Support legislation that promotes better cooperation between state and federal governments and municipal governments.

Policy 3.1G.2 Seek support for federal and state funding of Sunnyvale's water resources projects and programs.

Action Statements

3.1G.2a Continue to pursue funding of reclaimed water projects through Santa Clara Valley Water District, San Francisco Water Department and the legislature.

3.1G.2b Monitor and pursue other available funding for major capital improvements and infrastructure replacement projects.

Policy 3.1G.3 Oppose efforts to unreasonably reduce the availability of water supply to Sunnyvale.

Action Statements

3.1G.3a Oppose efforts by the federal government to eliminate Hetch-Hetchy reservoir.

3.1G.3b Oppose legislation that unreasonably diverts existing water supplies from municipalities to other uses.

3.1G.3c Oppose legislation that would block proposed water supply projects that are necessary, reasonable, cost-effective, and environmentally sound.

Policy 3.1G.4 Support efforts to encourage reasonable demand-side water conservation programs.

Action Statements

3.1G.4a Support on-going state and local water conservation efforts and support legislation encouraging the installation of reasonable water conservation devices in a building prior to transfer of title, provided there is some economic impact criteria.

3.1G.4b Oppose legislation requiring cities and counties to conduct a water supply analysis every three years.

3.1G.4c Work with Santa Clara Valley Water District, San Francisco Water Department and other retailers to support ULFT rebate programs, showerhead giveaways, and other Best Management Practices.

Policy 3.1G.5 Support legislation that would allow greater flexibility for water transfers, subject to protection of water rights and any adverse impacts on affected

communities.

Action Statements

3.1G.5a Support legislation that authorizes any retail water user with a water allocation to transfer that allocation to another user and work with water agencies to devise a means of effective transfer that will not risk existing water rights but rather augment supplies that are severely impacted by drought and encourage the federal government to consider similar legislation.

Policy 3.1G.6 Support legislation and regulations that establish beneficial water quality standards that are based on scientific facts, benefit-risk analyses and other supportable evidence.

Action Statements

3.1G.6a Support efforts by Congress to direct EPA to give to the State the flexibility to adopt toxicity standards based on site-specific conditions, which will provide reasonable, cost-effective protection to aquatic organisms and human health. Support a more cooperative approach between all levels of government and the private sector to determine environmental priorities and standards.

3.1G.6b Support a moratorium on the promulgation and implementation of drinking water regulations under the Safe Drinking Water Act until such time as studies are completed and the reauthorization of the Act is carried out.

3.1G.6c Oppose any water quality legislation or regulations that are not based on scientific evidence and/or do not provide measurable improvements in public health.

# Solid Waste Sub-Element

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## Goals, Policies and Action Statements

Goal 3.2A        Ensure that all municipal solid waste generated within the City is collected and transported in a manner that protects public health and safety.

Policy 3.2A.1    Provide convenient, competitively priced solid waste collection services.

### Action Statements

3.2A.1a    Establish, enforce and periodically update collection service standards.

3.2A.1b    Provide collection services that meet the needs of elderly and disabled residents.

3.2A.1c    Evaluate methods of achieving increased efficiencies in solid waste collection.

3.2A.1d    Compile and analyze information regarding collection operations to ensure that existing operations are operated in a safe, sanitary and efficient manner, and that collection costs are necessary and reasonable.

Policy 3.2A.2    Ensure that standards of Customer Service Excellence policies are met by those providing solid waste collection service.

### Action Statements

3.2A.2a    Provide and publicize convenient methods by which customer complaints can be filed.

3.2A.2b    Investigate all complaints regarding solid waste collection and maintain records of complaint resolution.

Goal 3.2B        Reduce solid waste disposal to 50% or less of the amount generated in 1990 (as adjusted to reflect population and economic changes) in the most cost-effective manner.

Policy 3.2B.1    Reduce generation of solid waste by providing source reduction programs and promoting source reduction behavior.

Action Statements

- 3.2B.1a Provide source reduction programs that reduce the generation of solid waste.
- 3.2B.1b Encourage and facilitate private source reduction programs, services and facilities.
- 3.2B.1c Provide comprehensive and ongoing public education programs to encourage source reduction behavior by Sunnyvale residents and businesses.
- 3.2B.1d Continue to monitor the effectiveness of unlimited residential refuse collection.

Policy 3.2B.2 Maximize diversion of solid waste from disposal by use of demand management techniques, providing and promoting recycling programs, and encouraging private sector recycling.

Action Statements

- 3.2B.2a Continue to use demand management in determining refuse collection rates and policies.
- 3.2B.2b Provide, or facilitate the provision of, recycling collection services to residential, commercial and industrial customers in a cost-effective way that allows achievement of the 50% diversion goal.
- 3.2B.2c Provide comprehensive and ongoing public education and promotion programs to encourage residents and businesses to participate in recycling programs.
- 3.2B.2d Make City facilities models of source reduction and recycling behavior by stating that all employees are expected and empowered to incorporate source reduction and recycling in their work practices.
- 3.2B.2e Compile and analyze information regarding recycling and disposal amounts, program costs and customer satisfaction to evaluate the City's progress toward achieving its disposal diversion goal.

Policy 3.2B.3 Meet or exceed all federal, state and local laws and regulations concerning solid waste diversion and implementation of recycling and source reduction programs.

Action Statements

- 3.2B.3a Periodically update the Sunnyvale Source Reduction and Recycling Element and perform related tasks as required by state law.
- 3.2B.3b Continue to implement the source reduction and recycling programs described in the Sunnyvale Source Reduction and Recycling Element.

3.2B.3c Continue to monitor the City's compliance with waste diversion laws and regulations.

Policy 3.2B.4 Increase demand for recycled materials by advocating local, state and federal legislation that will increase use of recycled content products.

Action Statement

3.2B.4a Identify and support proposed laws and administrative actions that would increase the demand for and value of recycled materials in a cost effective manner.

Goal 3.2C Encourage residents to maintain clean neighborhoods by preventing unsightly accumulations of discarded materials and illegal dumping of municipal solid waste.

Policy 3.2C.1 Provide periodic opportunities for residents to dispose of refuse at discounted or no charge.

Action Statements

3.2C.1a Periodically provide "extended curbside collection" of bulky residential refuse.

3.2C.1b Periodically provide City residents free disposal of refuse at the Sunnyvale Materials Recovery and Transfer Station.

3.2C.1c Provide disposal services for neighborhood cleanup events.

Goal 3.2D Dispose of solid waste generated within the City in an environmentally sound, dependable and cost-effective manner.

Policy 3.2D.1 Assure that the City possesses a minimum of five years of refuse disposal capacity at all times.

Action Statements

3.2D.1a Annually assess the amount of disposal capacity available with existing disposal arrangements and projected disposal amounts.

3.2D.1b When available disposal capacity equals ten years or less, initiate actions to arrange for sufficient capacity to accommodate present and projected City needs.

Policy 3.2D.2 Reduce the amount of refuse being disposed, generate recycling revenues and minimize truck travel to the disposal site through use of the Sunnyvale Materials Recovery and Transfer Station.

Action Statements

3.2D.2a Achieve economies of scale in the operation of the Sunnyvale Materials Recovery and Transfer Station.

3.2D.2b Continue to monitor Sunnyvale Materials Recovery and Transfer Station operations to ensure compliance with all performance standards and regulatory requirements.

3.2D.2c Research developments in refuse transfer, materials recovery equipment and operations, and markets for recovered materials and implement appropriate changes to Sunnyvale Materials Recovery and Transfer Station equipment and operations.

Goal 3.2E Minimize potential future City liability for wastes generated in the City.

Policy 3.2E.1 Select disposal methods and sites for solid and hazardous wastes that incorporate technologies and practices most likely to eliminate or minimize future City liabilities.

Action Statements

3.2E.1a Obtain and review permits, reports and other information related to disposal facilities to verify compliance with laws, regulations and prudent practices.

3.2E.1b Whenever practical, select to dispose of hazardous wastes by reuse, recycling, incineration and landfilling, in that order.

Policy 3.2E.2 Minimize impact on future rate payers of potential liability for past disposal practices.

Action Statements

3.2E.2a Evaluate existing reserve funds and potential liabilities and adopt appropriate reserve fund policies.

3.2E.2b Seek changes to federal law to minimize the City's potential liability for disposal of municipal solid waste.

Policy 3.2E.3 Minimize illegal and inappropriate disposal of Household Hazardous Waste.

Action Statements

3.2E.3a Encourage use of Household Hazardous Waste source reduction practices by providing promotion and public education.

3.2E.3b Provide and promote convenient Household Hazardous Waste disposal services.

Policy 3.2E.4 To meet or exceed all federal, state and local laws and regulations concerning Household Hazardous Waste and implementation of Household Hazardous Waste programs.

Action Statements

3.2E.4a Periodically update the Sunnyvale Household Hazardous Waste Element and perform related tasks as required by state law.

3.2E.4b Implement the Household Hazardous Waste programs described in the Household Hazardous Waste Element.

Goal 3.2F Maintain sound financial strategies and practices that will enable the City to provide comprehensive solid waste management services to the community while keeping refuse rates at or below countywide averages for cities using cost of service pricing.

Policy 3.2F.1 Establish refuse collection and disposal rates in a manner that equitably allocates program costs among rate payers and promotes rate stability.

Action Statements

3.2F.1a Periodically restructure refuse collection and disposal rates to incorporate demand management, minimize demand for services and reflect actual costs.

3.2F.1b Annually survey refuse rates and rate-setting methods for comparable Santa Clara County cities to determine City's relationship to countywide averages.

Policy 3.2F.2 To the greatest extent possible, anticipate changes required in refuse collection rates in response to changes in laws, regulations and economic factors affecting the solid waste management system.

Action Statements

3.2F.2a Prepare budgets that reflect costs for anticipated legislation and regulations, new programs and modifications to existing programs.

3.2F.2b Annually establish refuse collection rates that use long-range budget projections to maximize the predictability of future rates.

3.2F.2c Identify, and work to modify, proposed laws and legislation that have potential financial impacts on the solid waste management program.

Policy 3.2F.3 Identify additional revenue sources and, where possible, increase revenues from solid waste programs, services and facilities without jeopardizing program goals and customer service quality.

Action Statements

3.2F.3a Seek grant funding from the State and other sources where the cost of obtaining and maintaining the grant does not negate its value.

3.2F.3b Identify and pursue potential customers for any unused capacity of the Sunnyvale Materials Recovery and Transfer Station.

3.2F.3c Review and audit revenue sources to ensure that all appropriate revenues are being received.

3.2F.3d Evaluate revenues of existing and proposed programs as decisions are being made regarding those programs.

Goal 3.2G Contribute to an economic development environment that is supportive of a wide variety of businesses.

Policy 3.2G.1 Provide solid waste services desired by businesses at competitive rates.

Action Statement

3.2G.1a Conduct periodic surveys to verify that businesses receive useful services at a competitive price.

Goal 3.2H Manage the closed Sunnyvale Landfill in a manner that protects the public health and safety and the environment, promotes enjoyable public use of the site and assists in the achievement of other goals of the Solid Waste Sub-Element.

Policy 3.2H.1 Ensure compliance with federal, state and local laws and regulations.

Action Statements

3.2H.1a Continue to monitor and manage leachate, groundwater and landfill gas.

3.2H.1b Continue to monitor and manage the landfill cap, slopes and surface vegetation.

3.2H.1c Maintain post-closure maintenance financial assurance mechanism in compliance with regulations.

Policy 3.2H.2 Extract available resources from the refuse buried at the landfill.

Action Statements

3.2H.2a Provide landfill gas of a quality and at a flow rate suitable for energy recovery.

3.2H.2b Continue to monitor new technologies for further opportunities to extract buried resources.

Policy 3.2H.3 Provide for safe, enjoyable recreational access to portions of the landfill.

Action Statements

3.2H.3a Maintain environmental control systems to provide for safe public access to open space portions of the site.

3.2H.3b Maintain a vegetative screen along Caribbean Drive and Borregas Avenue to enhance the aesthetics of the landfill, as viewed from the adjacent industrial area.

3.2H.3c Provide information to visitors regarding the site's history and relationship to other nearby City-operated environmental management facilities.

Policy 3.2H.4 Provide for facilities and activities on portions of the landfill that support achievement of the City's solid and household hazardous waste goals and policies.

Action Statements

3.2H.4a Continue to provide for concrete and asphalt recycling.

3.2H.4b Consider long-term use of the Carl Road Recycling Center as a household hazardous waste facility.

3.2H.4c Provide a disposal area for dried sewage sludge from the Water Pollution Control Plant.

3.2H.4d Evaluate the benefits to the solid waste program of other waste diversion facilities and activities proposed to be located on the landfill.

Policy 3.2H.5 Generate revenues from post-closure uses of the landfill.

Action Statements

3.2H.5a Periodically evaluate the possibility of increasing revenues generated by existing facilities located on the landfill.

3.2H.5b Evaluate the suitability and revenue potential of proposed revenue-generating uses of the landfill.

# Sanitary Sewer System Sub-Element

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## Goals, Policies and Action Statements

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### Generations

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Goal 3.3A Insure that the quantity and quality of wastes generated does not exceed the capabilities of the transportation and disposal facilities.

Policy 3.3A.1 City shall provide for limitations on flow generated by new industries and enlargements of existing industries so that the total flow to the Water Pollution Control Plant will not exceed the safe operating capacity of the plant but under no circumstances is it to exceed 29.5 MGD.

#### Action Statements

3.3A.1a Monitor the generation of industrial wastes by new industries and enlargements of existing industries to insure that the safety treatment capacity is not exceeded at any time.

3.3A.1b Enact a sewage discharge moratorium if the average flow to the Water Pollution Control Plant reaches 96% (4% safety factor) of design flow.

3.3A.1c Maintain a fair and equitable allocation system of Water Pollution Control Plant treatment capacity to land use category.

Policy 3.3A.2 Insure that wastes discharged to the transportation system can be treated by existing treatment processes of the Water Pollution Control Plant.

#### Action Statements

3.3A.2a Provide adequate pretreatment monitoring to insure that the discharge standards are met by the dischargers.

3.3A.2b Develop and implement an information system to inform sewer users of prohibited discharges, pretreatment methods and reporting requirements.

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## Transportation

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Goal 3.3B Continue to operate and maintain the sanitary sewer system so that all sewage and industrial wastes generated within the City are collected and transported under safe and sanitary conditions to the Water Pollution Control Plant.

Policy 3.3B.1 Inspect critical points in the sewerage system annually to insure that the proper level of maintenance is being provided and that the flow in sewers does not exceed design capacity.

Action Statements

3.3B.1a Jet flush the sewer system on a regular basis.

3.3B.1b Monitor locations where the capacity is critical in the sewerage system.

3.3B.1c Continue the program of minimizing the illegal storm connections on private property to the City sanitary system.

3.3B.1d Continue the program of locating and correcting points of infiltration in the sewers.

3.3B.1e Continue to provide an adequate level of maintenance for the sewerage system.

3.3B.1f Develop and maintain accurate, up-to-date maps and records of the sewerage system.

3.3B.1g Explore alternate uses for existing cannery line.

3.3B.1h Ensure that City's 10-year Capital Plan provides for necessary Capital Improvements and Replacements.

Policy 3.3B.2 Permit the direct discharge of process water to the Santa Clara Valley Water District's flood control channels or the City's storm drains pursuant to the requirements of the City's approved policy.

Action Statement

3.3B.2a Process water may be discharged directly to a flood control channel or to a private pipeline that in turn discharges to a flood control channel without a City permit providing discharger has a current National Pollutant Discharge Elimination System (NPDES) permit from the Regional Water Quality Control Board and authorization from the Santa Clara Valley Water District.

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## Disposal

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Goal 3.3C Continue to operate and maintain the Water Pollution Control Plant so that all sewage and industrial wastes generated within the City receive sufficient treatment to meet the effluent discharge and receiving water standards of the regulatory agencies.

Policy 3.3C.1 Monitor Water Pollution Control Plant's operations and maintenance for its ability to meet regulatory standards.

Action Statement

3.3C.1a Continue to provide the water pollution control facilities, personnel, materials and utilities so that the sewage and industrial wastes generated within the City can be treated to the extent needed to meet the regulatory agencies' standards.

Policy 3.3C.2 Coordinate procedures with Energy Sub-Element for optimizing an alternative energy program for the Water Pollution Control Plant so that minimum use and reliance are placed on outside energy sources.

Action Statement

3.3C.2a Implement the procedures deemed feasible of an alternative energy program for the Water Pollution Control Plant.

Policy 3.3C.3 Monitor South Bay water quality testing programs to determine if relocation of treated effluent discharge is necessary.

Action Statement

3.3C.3a Work with the other members of the South Bay dischargers (San Jose/Santa Clara and Palo Alto) to prove to the State Water Resources Control Board and the Regional Water Quality Control Board that the tertiary treated effluent from the three water pollution control plants now being discharged to South San Francisco Bay does not have to be transported to a point of deep water discharge north of Dumbarton Bridge in order to achieve the beneficial uses of the Bay.

3.3C.3b Continue to work with the neighboring cities, state and federal agencies, the county, etc. to solve mutual water quality problems.

Policy 3.3C.4 Study all feasible opportunities of waste-water reuse.

Action Statements

3.3C.4a Consider the development of a water reuse program.

3.3C.4b Study to determine whether a workable program for salt content control can be developed.

3.3C.4c Study effects of water re-use and its relationship on discharge to San Francisco Bay.

3.3C.4d Study feasibility of reclaimed water for restoration and/or enhancement of marshlands.

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## **Funding**

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Goal 3.3D Maintain financially stable Sewer Fund through a User Based Fee System.

Policy 3.3D.1 Assess connection fees to new system users for costs of excess system capacity constructed for their eventual use.

Policy 3.3D.2 Assess user fees based on quantity and quality of waste generated.

Policy 3.3D.3 Establish appropriate reserves to ensure stable rates and Capital Improvement and Replacement needs.

Policy 3.3D.4 Annually review rate structure.

Policy 3.3D.5 Annually review 10-year plan for Capital Improvement and Replacement needs.

Policy 3.3D.6 Continue to make landowners responsible for maintenance of sewer laterals, except that the City will make repairs to laterals between property line and sewer mains caused by broken pipe and street tree roots.

# Surface Runoff Sub-Element

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## Goals, Policies and Action Statements

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### Protect Beneficial Uses of Creeks and South San Francisco Bay

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Goal 3.4A      Assure the reasonable protection of beneficial uses of creeks and South San Francisco Bay, established in the Regional Board's Basin Plan, and protect environmentally sensitive areas.

Policy 3.4A.1    Continue to support the identification and development of Best Management Practices suitable for use in the City through participation in the Santa Clara Valley NPS Control Program, American Public Works Association's Stormwater Quality Task Force, the Bay Area Stormwater Management Agencies Association, and similar organizations.

Policy 3.4A.2    Comply with regulatory requirements and participate in processes which may result in modifications to regulatory requirements.

#### Action Statements

3.4A.2a    Conduct internal audits in order to continue to improve environmental programs.

3.4A.2b    Implement appropriate pollution prevention activities for targeted pollutants to comply with regulatory requirements.

3.4A.2c    Review proposed changes in regulatory requirements and comment as appropriate.

3.4A.2d    When evaluating pollutant control measures, consider all potential impacts including effects on the storm drain system, sanitary sewer system, and groundwater.

Policy 3.4A.3    Ensure that Best Management Practices are implemented to reduce the discharge of pollutants in storm water to the maximum extent practicable.

#### Action Statements

3.4A.3a    Inspect industrial and commercial businesses for potential discharges to storm drains as part of industrial pretreatment inspections for the Water Pollution Control Plant.

- 3.4A.3b Modify Industrial Pretreatment permits to also require Best Management Practices to control the discharge of pollutants to city-owned storm drains.
- 3.4A.3c Use the City newsletter and utility billings to disseminate information regarding the proper disposal of waste and to encourage the public to participate in reducing pollutants in storm water runoff.
- 3.4A.3d Continue outreach programs to industrial and commercial businesses to educate them on proper disposal of waste to the sanitary sewer and storm drains.
- 3.4A.3e Label approximately 1,060 municipal storm drainage inlets a year until all inlets are labeled and maintain labels as necessary to educate the public on the fate of material discharged to storm drains.
- 3.4A.3f Encourage private property owners to label storm drain inlets.
- 3.4A.3g Conduct surveys during public events to track public awareness of the Santa Clara Valley NPS Control Program.
- 3.4A.3h Obtain copies and use the Statewide Best Management Practices Manual (to be available around the beginning of 1993) as guidance.
- 3.4A.3i Modify new development and redevelopment permitting procedures to require developers and contractors to implement Best Management Practices before, during and after construction to minimize pollutants discharged in storm water runoff. The report titled "Storm Water Quality Controls for New Developments in Santa Clara Valley and Alameda County: A Guide for Controlling Post-Development Runoff" will be used as guidance to achieve post-development controls.
- 3.4A.3j Continue to participate with the Santa Clara Valley NPS Control Program to hold workshops to notify developers, consulting firms and contractors of the General Construction Activity Storm Water Permit; to notify industries of industrial National Pollution Discharge Elimination System storm water permit requirements and everyone about the requirements of the City's area-wide municipal storm water National Pollution Discharge Elimination System permit.
- 3.4A.3k Continue to develop and maintain accurate maps of the storm drain system owned and operated by the City.
- 3.4A.3l Track existing municipal government activities, which remove pollutants prior to discharge to storm drains such as the number of storm drain inlets cleaned, curb miles swept and amounts of material removed.
- 3.4A.3m In addition to sweeping streets for aesthetic purposes, sweep to prevent pollutants from entering storm drain inlets. Similarly, in addition to cleaning storm drain inlets to prevent flooding, clean inlets to remove pollutants from the storm drain system. The " Best Management Practices for Street Cleaning and Storm Drainage Facilities" developed by the Alameda County Urban Runoff Clean Water Program may be used as guidance.
- 3.4A.3n Track creek and South San Francisco Bay water quality data collected by the Santa Clara Valley NPS Control Program, the Water Pollution Control Plant

and other environmental monitoring programs, for changes resulting from the implementation of Best Management Practices.

3.4A.3o Continue to detain storm water runoff in the Pump Station No. 2 basin to settle sediment and associated pollutants prior to discharge to receiving waters.

3.4A.3p Monitor influent and effluent from the basin to determine percent removal of pollutants in order to evaluate the effectiveness of the detention basin in removing pollutants.

3.4A.3q Test pollutants in the basins, and develop and implement a maintenance plan to assure that sediment is periodically removed and properly disposed.

Policy 3.4A.4 Effectively prohibit illicit discharges and improper disposal into the storm drain system.

Action Statements

3.4A.4a Encourage all residents, industrial and commercial facilities, and public agencies to report spills and illegal dumping incidents to the Water Pollution Control Plant in order to initiate an immediate response and log spills.

3.4A.4b Perform tests and inspections to discover unauthorized discharges into storm drains.

3.4A.4c Track reports of spill incidents received at the Water Pollution Control Plant.

3.4A.4d Locate and eliminate illicit connections.

3.4A.4e Consider possible improvements to ordinances to more clearly spell out the requirements for implementing Best Management Practices and for providing the authority to request monitoring or technical reports that might be necessary from dischargers to the City's storm drainage system.

Policy 3.4A.5 Prevent accelerated soil erosion.

Action Statements

3.4A.5a Require developers and contractors to implement Association of Bay Area Governments soil erosion control measures.

3.4A.5b Encourage property owners to maintain vegetative cover.

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## Maintain Storm Drain System

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Goal 3.4B      Maintain storm drain system to prevent flooding.

Policy 3.4B.1    Maintain and operate the storm drain system so that storm waters are drained from 95% of the streets within one hour after a storm stops.

Action Statements

3.4B.1a    Inspect and clean as necessary all storm drainage inlets at least once a year prior to the rainy season.

3.4B.1b    Clean drop inlets in response to flood complaints.

3.4B.1c    When cleaning storm drain inlets and lines, maximize removal of material at the nearest access point to minimize discharges to watercourses.

3.4B.1d    Inspect storm water pump stations weekly and maintain as needed.

3.4B.1e    Assure proper disposal of all material cleaned from storm drain inlets and lines.

Policy 3.4B.2    Respond to storm drain emergencies.

Action Statements

3.4B.2a    Respond to all emergency calls within 20 minutes during storms and within 45 minutes during other periods.

3.4B.2b    Inspect and eliminate unauthorized discharges into the storm drain system.

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## Recognize Flood Hazard

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Goal 3.4C      Ensure that flood hazards are recognized.

Policy 3.4C.1 Operate and maintain the storm drainage system at a level to minimize damages and ensure public safety.

Action Statements

3.4C.1a Update maps of the storm drain system after new developments and/or re-developments and storm drainage additions.

3.4C.1b Maintain records of incidents of local flooding and budget for system improvements.

Policy 3.4C.2 Prevent flooding to protect life and property.

Action Statements (primarily from the Seismic Safety & Safety Sub-Element)

3.4C.2a Encourage the Santa Clara Valley Water District to periodically reevaluate the capacity of creeks and channels.

3.4C.2b Encourage the Santa Clara Valley Water District to maintain creeks and channels to remove flow-inhibiting vegetation, debris and silt.

3.4C.2c Encourage the Santa Clara Valley Water District to maintain dikes and levees at least 3 feet above the 1% flood level and to inspect and repair damage caused by burrowing animals.

3.4C.2d Continue to maintain the flood plain management practices outlined by the Federal Emergency Management Agency and the Army Corps of Engineers.

3.4C.2e Continue participation in the National Flood Insurance Program.

Policy 3.4C.3 Monitor and plan for hydraulic changes due to global warming, earthquakes and/or subsidence.

Action Statements

3.4C.3a Track sea level elevations at tide gauge locations maintained by the US Coast Guard, National Oceanic and Atmospheric Administration, and the San Francisco Bay Conservation and Development Commission to monitor changes in sea level.

3.4C.3b Monitor compaction, water level, and land surface elevation data compiled by the Santa Clara Valley Water District for possible land subsidence.

3.4C.3c Encourage the Santa Clara Valley Water District to consider installing tide gates in channels and creeks to prevent flooding during high tides.

- 3.4C.3d Budget for and construct additional storm drainage detention and pumping facilities as needed to assure continued ability to discharge surface runoff into the various Santa Clara Valley Water District facilities and San Francisco Bay.
- 3.4C.3e When designing structures along shorelines, consider future sea level changes.
- 3.4C.3f Ensure that private developers adequately plan and construct buildings to protect property in low lying areas.
- 3.4C.3g Review Federal Emergency Management Agency maps when they are updated every 3-5 years, and incorporate information on flood prone areas into future land use plans.

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## **Minimize Pollutants and Runoff from New Developments**

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Goal 3.4D Minimize the quantity of runoff and discharge of pollutants to the maximum extent practicable by integrating surface runoff controls into new development and redevelopment land use decisions.

Policy 3.4D.1 Consider the impacts on the water quality of surface runoff as part of land use and development decisions and implement Best Management Practices to minimize the total volume and rate of runoff.

### Action Statements

- 3.4D.1a Study and determine the appropriateness of a particular parcel of land to support selected Best Management Practices for removing pollutants prior to discharge.
- 3.4D.1b Assure that all applicable development projects (those disturbing 5 acres or greater of land) obtain coverage under the State Water Board's general construction activity storm water National Pollution Discharge Elimination System permit or under a similar Regional Board permit if one is adopted in the future.
- 3.4D.1c Assure that a reference list of Best Management Practices and copies of appropriate Best Management Practice manuals and/or guidelines are available at City libraries and City offices.

Policy 3.4D.2 Consider the ability of a land parcel to detain excess storm water runoff in flood prone areas and require incorporation of appropriate controls.

Action Statement

- 3.4D.2a Land use decisions should also consider the ability of a parcel to detain excess storm water in areas prone to flooding through use of oversized collection systems and detention facilities.

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**Funding**

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Goal 3.4E Consider alternative methods of generating revenue to support the surface runoff quality improvement activities.

Policy 3.4E.1 Develop a revenue program that will ensure funding to: 1) implement Best Management Practices; 2) conduct public information and participation outreach activities; 3) inspect and eliminate illicit discharges, and inspect industrial and commercial facilities; 4) meet storm drain operational and maintenance needs to improve surface runoff quality; 5) monitor storm water quality; 6) participate in general Santa Clara Valley NPS Control Program activities; and 7) provide appropriate reserves.

Action Statements

- 3.4E.1a Evaluate the ability of the existing sanitary sewerage revenue program to provide adequate support for the City to comply with activities mandated by the area wide municipal storm water National Pollution Discharge Elimination System permit and with the other surface runoff control activities included in the Santa Clara Valley NPS Control Program.
- 3.4E.1b Review the rate structure annually and consider appropriate changes.

## **Energy Sub-Element**

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The Energy Sub-Element was retired Fiscal Year 1998/1999.

# Noise Sub-Element

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## Goals, Policies and Action Statements

Goal 3.6A Maintain or achieve a compatible noise environment for all land uses in the community (land use compatibility).

Policy 3.6A.1 Prevent significant noise impacts from new development by applying state noise guidelines and Sunnyvale Municipal Code noise regulations in the evaluation of land use issues and proposals.

### Action Statements

3.6A.1a Apply the Sunnyvale Municipal Code noise regulations in the evaluation of land uses and proposals. Acoustical analysis may be required to determine if mitigation measures shall be required for the new development. If required, mitigation measures shall be incorporated into the new development that bring the proposed development into conformance with the noise regulations in the Sunnyvale Municipal Code.

3.6A.1b Consult the Noise Condition Map (Appendix A) to determine noise levels throughout the City.

3.6A.1c Comply with the "Noise and Land Use Compatibility Guidelines" (Table 2) for the compatibility of land uses with their noise environments, except where the City determines that there are prevailing circumstances of a unique or special nature.

3.6A.1d Use Table 3.6A.1d to determine if proposed development results in a "significant noise impact" on existing development.

Table 3.6A.1d Significant Noise Impacts from New Development on Existing Land Uses

Ldn of Existing Development <sup>1</sup>	Significant Noise Impact Increase in Ldn of Existing Development from New Development
"Normally Acceptable" <sup>2</sup>	More than 5 dBA, but noise level still in the "Normally Acceptable" category
"Normally Acceptable"	More than 3 dBA and the noise level exceeds the "Normally Acceptable" category
exceeds "Normally Acceptable"	More than 3 dBA

1. The Ldn shall be measured at any point along the property line shared by the proposed development and existing land uses.
2. "Normally Acceptable" as defined by the State of California "Noise and Land Use Compatibility Guidelines", summarized in this Sub-Element.

- 3.6A.1e Use the CEQA and the discretionary permit processes to protect existing land uses from significant noise impacts due to new development. Acoustical analysis required as part of the CEQA or discretionary permit process, master plans, and/or design review shall determine if significant noise impacts occur from proposed development on existing land uses. If significant noise impacts occur, then mitigation measures shall be required to minimize the impact of the new development on existing land uses.
- 3.6A.1f Supplement the "Noise and Land Use Compatibility Guidelines" (Table 2) for residential uses by attempting to achieve an outdoor Ldn of no greater than 60 dBA for common recreation areas, backyards, patios, and medium and large-size balconies. These guidelines should not apply where the noise source is a railroad or airport. If the noise source is a railroad, then an Ldn of no greater than 70 dBA should be achieved in common recreation areas, backyards, patios, and medium and large balconies. If the noise source is from aircraft, then preventing new residential uses within areas of high Ldn from aircraft noise is recommended.

Policy 3.6A.2 Enforce and supplement state laws regarding interior noise levels of residential units.

Action Statements

- 3.6A.2a Enforce Title 24 Noise Insulation Requirements for all new hotels, motels, apartments, condominiums group care homes and all other dwellings, except single-family detached homes.
- 3.6A.2b Apply Title 24 Noise Insulation Requirements to all new single-family detached homes.
- 3.6A.2c Attempt to achieve a maximum instantaneous noise level of 50dBA in bedrooms and 55dBA in other areas of residential units exposed to train or aircraft noise, where the exterior Ldn exceeds 55dB.

Policy 3.6A.3 Consider techniques, which block the path of noise and insulate people from noise.

Action Statements

- 3.6A.3a Use a combination of barriers, setbacks, site planning and building design techniques to reduce noise impacts, keeping in mind their benefits and shortcomings.
- 3.6A.3b Consider compiling and distributing information to residents of noise-impacted areas about what they can do to protect themselves from noise.

- 3.6A.3c Proposed sound walls or other noise reduction barriers should be reviewed for design, location, and material before installing the barrier. Sound readings should be taken before and after installing the noise reduction barrier in order to determine the efficacy of the noise reduction barrier. Measurement techniques shall be similar to procedures used by Caltrans to measure efficiency of sound walls.

Goal 3.6B Preserve and enhance the quality of neighborhoods by maintaining or reducing the levels of noise generated by transportation facilities (transportation noise).

Policy 3.6B.1 Refrain from increasing or reduce the noise impacts of major roadways.

Action Statements

- 3.6B.1a Identify and mitigate roadway noise impacts as part of local land use plans and proposals.
- 3.6B.1b Regulate the location, design and capacity of local roadway improvement projects to mitigate their noise impacts.
- 3.6B.1c Use local traffic management techniques to reduce or protect noise levels. (For example, the City can place truck routes away from neighborhoods. Commuters can be diverted from residential streets. Note that some techniques may address one problem but cause others. For instance, stop signs can improve safety but they can also raise noise levels. In such cases, the City must balance its goals to the extent possible.)
- 3.6B.1d Advocate that neighboring cities should identify and mitigate roadway noise impacts that affect Sunnyvale as part of their land use plans.
- 3.6B.1e Advocate that public agencies should identify and mitigate noise impacts as part of their transportation system improvement projects.
- 3.6B.1f Support state legislation to reduce vehicle noise levels.
- 3.6B.1g Continue to enforce state muffler and exhaust laws.

Policy 3.6B.2 Support efforts to reduce or mitigate airport noise.

Action Statements

- 3.6B.2a Support the retention of the Airport Land Use Commission.
- 3.6B.2b Support the right of private citizens to sue airports for noise impacts.

- 3.6B.2c Encourage airport operation policies and procedures, which reduce the level and frequency of noise as well as other policies and federal funding to alleviate the effects of aircraft noise.

Policy 3.6B.3 Support activities that will minimize the noise impacts of Moffett Federal Airfield.

Action Statements

- 3.6B.3a Monitor the annual number of flight operations and evaluate any increases in activity.
- 3.6B.3b Encourage NASA to seek ways to minimize flights over the community and manage practice landings.
- 3.6B.3c Encourage NASA to continue to direct flight operations over the Bay during evening and nighttime hours.
- 3.6B.3d Encourage NASA to continue flight, landing and maintenance procedures, which lower noise levels.
- 3.6B.3e Encourage NASA to establish a complaint record and response program.
- 3.6B.3f Support the continuation of NASA's public information program.
- 3.6B.3g Oppose any effort and/or expenditure of public funds to promote Moffett Federal Airfield for non-federal purposes.
- 3.6B.3h Support efforts to limit non-essential air traffic at Moffett Federal Airfield.
- 3.6B.3i Support federal legislation that require military and federal aircraft to meet Stage 3 noise requirements similar to commercial aircraft.

Policy 3.6B.4 Support activities that will minimize and/or reduce the noise impacts of San Jose International Airport.

Action Statements

- 3.6B.4a Monitor the annual number of passengers and evaluate trends in activity at San Jose International Airport.
- 3.6B.4b Monitor plans for expansion of San Jose International Airport terminals and evaluate the resulting increases in activity.
- 3.6B.4c Consider encouraging the City of San Jose to install a local noise monitoring station in the Lakewood area.

3.6B.4d Encourage the City of San Jose to promote the use of Stage 3 aircraft.

3.6B.4e Encourage the City of San Jose to maintain strict control over flight patterns, which influence noise in Sunnyvale.

3.6B.4f Encourage the City of San Jose to educate pilots and seek their cooperation in using cockpit techniques that reduce noise levels.

3.6B.4g Support federal legislation to lower the noise levels of civilian aircraft.

3.6B.4h Support state legislation to lower the noise levels of civilian airports.

Policy 3.6B.5 Encourage activities that limit the noise impacts of helicopters.

Action Statements

3.6B.5a Encourage NASA to direct helicopter flight operations and flight patterns so that they occur over industrial, not residential, areas.

3.6B.5b Allow the use of airborne helicopters at construction sites on a limited basis as permitted by the FAA and the Caltrans Division of Aeronautics.

Policy 3.6B.6 Mitigate and avoid the noise impacts from trains.

Action Statements

3.6B.6a Monitor plans and projects, which would increase the number of commuter trains and evaluate their noise impacts and seek mitigation for any change that worsens local conditions.

3.6B.6b Monitor plans and projects, which would increase the number of freight trains and evaluate their noise impacts and seek mitigation for any change that worsens local conditions.

3.6B.6c Avoid construction of new residential uses where the outdoor Ldn is greater than 70 dBA as a result from train noise.

3.6B.6d Educate owners of older homes on ways to reduce noise levels from trains.

3.6B.6e Support legislation to reduce the noise level of trains.

3.6B.6f Seek the cooperation of train engineers to avoid unnecessary and prolonged use of air horns except for safety purposes.

Policy 3.6B.7 Monitor and mitigate the noise impacts of light rail facilities.

Action Statements

3.6B.7a Monitor regional plans for light rail facilities in Sunnyvale to ensure that noise impacts are identified and mitigated.

Goal 3.6C Maintain or achieve acceptable limits for the levels of noise generated by land use operations and single-events (community noise).

Policy 3.6C.1 Regulate land use operation noise.

Action Statements

3.6C.1a Monitor the effectiveness of operational noise regulations every five years by referring to related community condition indicators.

3.6C.1b Apply conditions to discretionary land use permits, which limit hours of operation, hours of delivery and other factors, which affect noise.

3.6C.1c Continue interdepartmental procedures to respond to complaints about operational noise.

3.6C.1d Instantaneous noise measurements taken for the purpose of enforcing the noise regulations in the Sunnyvale Municipal Code shall be taken at the property line of the property generating the noise and in a location and time(s) that fairly represents the noise.

Policy 3.6C.2 Regulate select single-event noises and periodically monitor the effectiveness of the regulations.

Action Statements

3.6C.2a Monitor the effectiveness of limits on delivery hours and hours of operation of powered equipment on properties adjacent to residentially zoned properties every five years by referring to related community condition indicators.

3.6C.2b Continue efforts by the Department of Public Safety and Neighborhood Preservation to mediate complaints about single-event noise that is not regulated by the Sunnyvale Municipal Code.

# Air Quality Sub-Element

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## Goals, Policies and Action Statements

Goal 3.7A Improve Sunnyvale's Air Quality and reduce the exposure of its citizens to air pollutants.

Policy 3.7A.1 Require all new development to utilize site planning to protect citizens from unnecessary exposure to air pollutants.

### Action Statements

3.7A.1a Evaluate new development with potential sources of odors or criteria air pollutants to determine whether it is appropriate for them to be located near existing or planned residential development or sensitive receptors.

3.7A.1b New residential zones or residential development in non-residential zones should not be permitted near existing sources of TAC's, unless it can be shown through a Health Risk Assessment that no unacceptable health risk is created.

3.7A.1c New residential development should be located at least 15 feet from the property line along major streets or intersections unless a lesser distance can be demonstrated to not expose residents to unhealthy pollutant concentrations.

Policy 3.7A.2 Reduce automobile emissions through traffic and transportation improvements. Since traffic congestion delays increase the level of emissions, congestion management has air quality benefits.

### Action Statements

3.7A.2a Develop and maintain a balanced transportation system in Sunnyvale by promoting pedestrian, bicycle and transit modes of travel.

3.7A.2b The City should give high priority to traffic improvements that improve vehicle operating conditions (average speed, delay) such as signal timing improvements, signal synchronization, turn lanes, etc. Bay Area Air Quality Management District guidance developed for the CMP program deficiency plans defines such improvements.

Goal 3.7B Reduce air pollution impacts from future development.

Policy 3.7B.1 Utilize land use strategies to reduce air quality impact.

Action Statements

- 3.7B.1a Promote extension of transit systems, and locate higher density development/redevelopment along transit corridors.
- 3.7B.1b Promote mixed land use development that provides commercial services such as day care, restaurants, banks and stores near employment centers, reducing auto trip generation by promoting pedestrian travel. Promote neighborhood commercial and park uses within residential developments to reduce short auto trip generation by making pedestrian and bicycle trips feasible (for example, require sidewalks, bike trails and bicycle parking areas).
- Policy 3.7B.2 Assist employers in meeting requirements of Transportation Demand Management plans for existing and future large employers and participate in the development of Transportation Demand Management plans for employment centers in Sunnyvale.

Action Statements

- 3.7B.2a Enforce the provisions of the City's Transportation Demand Management ordinance covering businesses employing 100 or more persons.
- 3.7B.2b Amend the City's existing Transportation Demand Management ordinance to comply with the Bay Area Air Quality Management District 's Trip Reduction Rule.
- 3.7B.2c At the appropriate time, the City should explore the feasibility of seeking delegation of regulations which would affect smaller employers located within multi-tenant complexes, which are not included in the Trip Reduction Rule authority from the Bay Area Air Quality Management District.
- Policy 3.7B.3 Apply the Indirect Source Rule to new development with significant air quality impacts. Indirect Source review would cover commercial and residential projects as well as other land uses that produce or attract motor vehicle traffic.

Action Statements

- 3.7B.3a Increase densities near transit stations.
- 3.7B.3b Develop requirements for bicycle and pedestrian facilities.
- 3.7B.3c Require site design to encourage transit circulation and stops/waiting areas for transit and carpools.
- 3.7B.3d Consider controls to decrease vehicle idling emissions caused by "drive-through" operations.
- Goal 3.7C Make a contribution towards improving regional air quality.

Policy 3.7C.1 The City should actively participate in regional air quality planning.

Action Statements

3.7C.1a The City should work with regional air quality planning agencies such as the Bay Area Air Quality Management District, Metropolitan Transportation Commission, Association of Bay Area Governments, and Congestion Management Agency in the development and implementation of regional air quality strategies.

3.7C.1b Continue to monitor federal and state legislation regarding air quality issues.

Policy 3.7B.2 Improve opportunities for citizens to live and work in close proximity.

Action Statements

3.7C.2a In the long term, the City should encourage a better balance between jobs and housing than currently exists in Sunnyvale to reduce long distance commuting.

3.7C.2b The City should encourage affordable housing.

Policy 3.7C.3 Contribute to a reduction in regional vehicle miles traveled.

Action Statements

3.7C.3a The City should support and actively promote the expansion and improvement of local and regional transit systems providing service to Sunnyvale.

3.7C.3b The City should be a leader in implementing the Transportation Control Measures that are included in the Bay Area '91 Clean Air Plan, the regional plan required under the California Clean Air Act. The Plan currently includes 23 Transportation Control Measures. Of these the following identify cities as an implementing agency:

Transportation Control Measures 1:	Expand Employer Assistance Programs
Transportation Control Measures 2:	Adopt Employer-Based Trip Reduction Rule
Transportation Control Measures 9:	Improve Bicycle Access and Facilities
Transportation Control Measures 12:	Improve Arterial Traffic Management
Transportation Control Measures 13:	Transit Use Incentives
Transportation Control Measures 15:	Provide Carpool Incentives
Transportation Control Measures 16:	Indirect Source Control Program
Transportation Control Measures 18:	Zoning for Higher Densities Near Transit Stations
Transportation Control Measures 10:	Air Quality Elements for General Plans

Policy 3.7C.4 Reduce Emissions from City of Sunnyvale fleet vehicles.

#### Action Statements

3.7C.4a As a large employer, the City will provide leadership in the implementation of air quality programs such as the Trip Reduction Ordinance.

3.7C.4b The City will evaluate the development and implementation of a program to introduce and expand the use of alternative, cleaner fuels in its fleet of vehicles.